

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/587,450
Source: IFWP
Date Processed by STIC: 8/10/06

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/587,450

DATE: 08/10/2006

TIME: 10:46:41

Input Set : F:\14184-041US1.txt
 Output Set: N:\CRF4\08102006\J587450.raw

```

4 <110> APPLICANT: Currie, Mark G.
7 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
8 TREATMENT OF GASTROINTESTINAL DISORDERS
11 <130> FILE REFERENCE: 14184-041US1
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/587,450
C--> 13 <141> CURRENT FILING DATE: 2006-07-27
13 <150> PRIOR APPLICATION NUMBER: PCT/US2005/002941
14 <151> PRIOR FILING DATE: 2005-01-31
16 <150> PRIOR APPLICATION NUMBER: US 60/540,675
17 <151> PRIOR FILING DATE: 2004-01-30
19 <160> NUMBER OF SEQ ID NOS: 4733
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 16
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Synthetically generated peptide
31 <220> FEATURE:
32 <221> NAME/KEY: VARIANT
33 <222> LOCATION: 1
34 <223> OTHER INFORMATION: Xaa = Ser, Asn, Tyr, Ala, Gln, Pro, Lys, Gly, or
35 Thr, or is missing
37 <220> FEATURE:
38 <221> NAME/KEY: VARIANT
39 <222> LOCATION: 2
40 <223> OTHER INFORMATION: Xaa = His, Asp, Glu, Ala, Ser, Asn, Gly, or is
41 missing
43 <220> FEATURE:
44 <221> NAME/KEY: VARIANT
45 <222> LOCATION: 3
46 <223> OTHER INFORMATION: Xaa = Thr, Asp, Ser, Glu, Pro, Val or Leu
48 <220> FEATURE:
49 <221> NAME/KEY: VARIANT
50 <222> LOCATION: 5
51 <223> OTHER INFORMATION: Xaa = Asp, Ile or Glu
53 <220> FEATURE:
54 <221> NAME/KEY: VARIANT
55 <222> LOCATION: 6
56 <223> OTHER INFORMATION: Xaa = Ile, Trp or Leu
58 <220> FEATURE:
59 <221> NAME/KEY: VARIANT
60 <222> LOCATION: 7

```

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```

61 <223> OTHER INFORMATION: Xaa = Cys, Ser, or Tyr
63 <220> FEATURE:
64 <221> NAME/KEY: VARIANT
65 <222> LOCATION: 8
66 <223> OTHER INFORMATION: Xaa = Ala, Val, Thr, Ile, Met or is missing
68 <220> FEATURE:
69 <221> NAME/KEY: VARIANT
70 <222> LOCATION: 9
71 <223> OTHER INFORMATION: Xaa = any amino acid; or Phe, Tyr, Asn, Trp; or an
72   amino acid other than Phe, Trp, or Tyr; or
73   non-aromatic amino acid ; or is missing
75 <220> FEATURE:
76 <221> NAME/KEY: VARIANT
77 <222> LOCATION: 10
78 <223> OTHER INFORMATION: Xaa = Ala, Val, Met, Thr or Ile
80 <220> FEATURE:
81 <221> NAME/KEY: VARIANT
82 <222> LOCATION: 11
83 <223> OTHER INFORMATION: Xaa = Ala or Val
85 <220> FEATURE:
86 <221> NAME/KEY: VARIANT
87 <222> LOCATION: 13
88 <223> OTHER INFORMATION: Xaa = Ala or Thr
90 <220> FEATURE:
91 <221> NAME/KEY: VARIANT
92 <222> LOCATION: 14
93 <223> OTHER INFORMATION: Xaa = Gly, Ala or Ser
95 <220> FEATURE:
96 <221> NAME/KEY: VARIANT
97 <222> LOCATION: 15
98 <223> OTHER INFORMATION: Xaa = Cys, Tyr or is missing
100 <220> FEATURE:
101 <221> NAME/KEY: VARIANT
102 <222> LOCATION: 16
103 <223> OTHER INFORMATION: Xaa = Trp, Tyr or Phe ; or Lys or Arg ; or is
104   missing ; or His, Leu or Ser
106 <400> SEQUENCE: 1
W--> 107 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa
108   1           5           10          15
111 <210> SEQ ID NO.: 2
112 <211> LENGTH: 491
113 <212> TYPE: PRT
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 2
117 Met Ala Leu Leu Trp Gly Leu Leu Val Leu Ser Trp Ser Cys Leu Gln
118   1           5           10          15
119 Gly Pro Cys Ser Val Phe Ser Pro Val Ser Ala Met Glu Pro Leu Gly
120   20          25          30
121 Arg Gln Leu Thr Ser Gly Pro Asn Gln Glu Gln Val Ser Pro Leu Thr

```

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122	35	40	45													
123	Leu	Leu	Lys	Leu	Gly	Asn	Gln	Glu	Pro	Gly	Gly	Gln	Thr	Ala	Leu	Lys
124	50		55		60											
125	Ser	Pro	Pro	Gly	Val	Cys	Ser	Arg	Asp	Pro	Thr	Pro	Glu	Gln	Thr	His
126	65		70		75		80									
127	Arg	Leu	Ala	Arg	Ala	Met	Met	Ala	Phe	Thr	Ala	Asp	Leu	Phe	Ser	Leu
128							85		90				95			
129	Val	Ala	Gln	Thr	Ser	Thr	Cys	Pro	Asn	Leu	Ile	Leu	Ser	Pro	Leu	Ser
130							100		105		110					
131	Val	Ala	Leu	Ala	Leu	Ser	His	Leu	Ala	Leu	Gly	Ala	Gln	Asn	His	Thr
132							115		120		125					
133	Leu	Gln	Arg	Leu	Gln	Gln	Val	Leu	His	Ala	Gly	Ser	Gly	Pro	Cys	Leu
134							130		135		140					
135	Pro	His	Leu	Leu	Ser	Arg	Leu	Cys	Gln	Asp	Leu	Gly	Pro	Gly	Ala	Phe
136	145						145		150		155				160	
137	Arg	Leu	Ala	Ala	Arg	Met	Tyr	Leu	Gln	Lys	Gly	Phe	Pro	Ile	Lys	Glu
138							165		170		175					
139	Asp	Phe	Leu	Glu	Gln	Ser	Glu	Gln	Leu	Phe	Gly	Ala	Lys	Pro	Val	Ser
140							180		185		190					
141	Leu	Thr	Gly	Lys	Gln	Glu	Asp	Asp	Leu	Ala	Asn	Ile	Asn	Gln	Trp	Val
142							195		200		205					
143	Lys	Glu	Ala	Thr	Glu	Gly	Lys	Ile	Gln	Glu	Phe	Leu	Ser	Gly	Leu	Pro
144							210		215		220					
145	Glu	Asp	Thr	Val	Leu	Leu	Leu	Asn	Ala	Ile	His	Phe	Gln	Gly	Phe	
146	225						225		230		235				240	
147	Trp	Arg	Asn	Lys	Phe	Asp	Pro	Ser	Leu	Thr	Gln	Arg	Asp	Ser	Phe	His
148							245		250		255					
149	Leu	Asp	Glu	Gln	Phe	Thr	Val	Pro	Val	Glu	Met	Met	Gln	Ala	Arg	Thr
150							260		265		270					
151	Tyr	Pro	Leu	Arg	Trp	Phe	Leu	Leu	Glu	Gln	Pro	Glu	Ile	Gln	Val	Ala
152							275		280		285					
153	His	Phe	Pro	Phe	Lys	Asn	Asn	Met	Ser	Phe	Val	Val	Leu	Val	Pro	Thr
154							290		295		300					
155	His	Phe	Glu	Trp	Asn	Val	Ser	Gln	Val	Leu	Ala	Asn	Leu	Ser	Trp	Asp
156	305						305		310		315				320	
157	Thr	Leu	His	Pro	Pro	Leu	Val	Trp	Glu	Arg	Pro	Thr	Lys	Val	Arg	Leu
158							325		330		335					
159	Pro	Lys	Leu	Tyr	Leu	Lys	His	Gln	Met	Asp	Leu	Val	Ala	Thr	Leu	Ser
160							340		345		350					
161	Gln	Leu	Gly	Leu	Gln	Glu	Leu	Phe	Gln	Ala	Pro	Asp	Leu	Arg	Gly	Ile
162							355		360		365					
163	Ser	Glu	Gln	Ser	Leu	Val	Val	Ser	Gly	Val	Gln	His	Gln	Ser	Thr	Leu
164							370		375		380					
165	Glu	Leu	Ser	Glu	Val	Gly	Val	Glu	Ala	Ala	Ala	Ala	Thr	Ser	Ile	Ala
166							385		390		395				400	
167	Met	Ser	Arg	Met	Ser	Leu	Ser	Ser	Phe	Ser	Val	Asn	Arg	Pro	Phe	Leu
168							405		410		415					
169	Phe	Phe	Ile	Phe	Glu	Asp	Thr	Thr	Gly	Leu	Pro	Leu	Phe	Val	Gly	Ser
170							420		425		430					

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171 Val Arg Asn Pro Asn Pro Ser Ala Pro Arg Glu Leu Lys Glu Gln Gln
 172 435 440 445
 173 Asp Ser Pro Gly Asn Lys Asp Phe Leu Gln Ser Leu Lys Gly Phe Pro
 174 450 455 460
 175 Arg Gly Asp Lys Leu Phe Gly Pro Asp Leu Lys Leu Val Pro Pro Met
 176 465 470 475 480
 177 Glu Glu Asp Tyr Pro Gln Phe Gly Ser Pro Lys
 178 485 490
 181 <210> SEQ ID NO: 3
 182 <211> LENGTH: 29
 183 <212> TYPE: PRT
 184 <213> ORGANISM: Hirudinaria manillensis
 186 <220> FEATURE:
 187 <221> NAME/KEY: VARIANT
 188 <222> LOCATION: 23
 189 <223> OTHER INFORMATION: Xaa = any amino acid
 191 <400> SEQUENCE: 3
 192 Val Asp Glu Lys Ala Glu Val Thr Asp Gly Leu Cys Gly Asp Trp Thr
 193 1 5 10 15
 W--> 194 Cys Ser Gly Ala Gln Val Xaa Gln Asn Asp Ala Ala Val
 195 20 25
 198 <210> SEQ ID NO: 4
 199 <211> LENGTH: 55
 200 <212> TYPE: PRT
 201 <213> ORGANISM: Hirudo medicinalis
 203 <400> SEQUENCE: 4
 204 Thr Gln Gly Asn Thr Cys Gly Gly Glu Thr Cys Ser Ala Ala Gln Val
 205 1 5 10 15
 206 Cys Leu Lys Gly Lys Cys Val Cys Asn Glu Val His Cys Arg Ile Arg
 207 20 25 30
 208 Cys Lys Tyr Gly Leu Lys Lys Asp Glu Asn Gly Cys Glu Tyr Pro Cys
 209 35 40 45
 210 Ser Cys Ala Lys Ala Ser Gln
 211 50 55
 214 <210> SEQ ID NO: 5
 215 <211> LENGTH: 70
 216 <212> TYPE: PRT
 217 <213> ORGANISM: Hirudo medicinalis
 219 <400> SEQUENCE: 5
 220 Thr Glu Phe Gly Ser Glu Leu Lys Ser Phe Pro Glu Val Val Gly Lys
 221 1 5 10 15
 222 Thr Val Asp Gln Ala Arg Glu Tyr Phe Thr Leu His Tyr Pro Gln Tyr
 223 20 25 30
 224 Asp Val Tyr Phe Leu Pro Glu Gly Ser Pro Val Thr Leu Asp Leu Arg
 225 35 40 45
 226 Tyr Asn Arg Val Arg Val Phe Tyr Asn Pro Gly Thr Asn Val Val Asn
 227 50 55 60
 228 His Val Pro His Val Gly
 229 65 70

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Input Set : F:\14184-041US1.txt

Output Set: N:\CRF4\08102006\J587450.raw

232 <210> SEQ ID NO: 6
233 <211> LENGTH: 20
234 <212> TYPE: PRT
235 <213> ORGANISM: Bombyx mori
237 <400> SEQUENCE: 6
238 Asp Glu Pro Thr Thr Lys Pro Phe Cys Glu Gln Ala Phe Gly Asp Cys
239 1 5 10 15
240 Gly Thr Pro Tyr
241 20
244 <210> SEQ ID NO: 7
245 <211> LENGTH: 20
246 <212> TYPE: PRT
247 <213> ORGANISM: Bombyx mori
249 <400> SEQUENCE: 7
250 Asp Lys Pro Thr Thr Glu Pro Phe Ile Cys Glu Gln Arg Phe Gly Asn
251 1 5 10 15
252 Cys Gly Thr Gly
253 20
256 <210> SEQ ID NO: 8
257 <211> LENGTH: 66
258 <212> TYPE: PRT
259 <213> ORGANISM: Unknown
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Synthetically generated peptide
264 <400> SEQUENCE: 8
265 Ile Thr Tyr Thr Asp Cys Thr Glu Ser Gly Gln Asn Leu Cys Leu Cys
266 1 5 10 15
267 Glu Gly Ser Asn Val Cys Gly Lys Gly Asn Lys Cys Ile Leu Gly Ser
268 20 25 30
269 Gln Gly Lys Asp Asn Gln Cys Val Thr Gly Glu Gly Thr Pro Lys Pro
270 35 40 45
271 Gln Ser His Asn Gln Gly Asp Phe Glu Pro Ile Pro Glu Asp Ala Tyr
272 50 55 60
273 Asp Glu
274 65
277 <210> SEQ ID NO: 9
278 <211> LENGTH: 20
279 <212> TYPE: PRT
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Hirudin variant
285 <400> SEQUENCE: 9
286 Phe Pro Arg Pro Gly Gly Gly Asn Gly Asp Phe Glu Glu Ile Pro
287 1 5 10 15
288 Glu Glu Tyr Leu
289 20
292 <210> SEQ ID NO: 10
293 <211> LENGTH: 100
294 <212> TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : F:\14184-041US1.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,5,6,7,8,9,10,11,13,14,15,16
Seq#:3; Xaa Pos. 23
Seq#:814; Xaa Pos. 3
Seq#:815; Xaa Pos. 3,4
Seq#:816; Xaa Pos. 3,4,5
Seq#:817; Xaa Pos. 3,4,5,6
Seq#:818; Xaa Pos. 3,4,5,7
Seq#:819; Xaa Pos. 3,4,5,8
Seq#:820; Xaa Pos. 3,4,5,9
Seq#:821; Xaa Pos. 3,4,5,10
Seq#:822; Xaa Pos. 3,4,5,11
Seq#:823; Xaa Pos. 3,4,5,12
Seq#:824; Xaa Pos. 3,4,5,13
Seq#:825; Xaa Pos. 3,4,5,14
Seq#:826; Xaa Pos. 3,4,5,15
Seq#:827; Xaa Pos. 3,4,5,16
Seq#:828; Xaa Pos. 3,4,5,17
Seq#:829; Xaa Pos. 3,4,5,18
Seq#:830; Xaa Pos. 3,4,5,19
Seq#:831; Xaa Pos. 3,4,5,20
Seq#:832; Xaa Pos. 3,4,6
Seq#:833; Xaa Pos. 3,4,6,7
Seq#:834; Xaa Pos. 3,4,6,8
Seq#:835; Xaa Pos. 3,4,6,9
Seq#:836; Xaa Pos. 3,4,6,10
Seq#:837; Xaa Pos. 3,4,6,11
Seq#:838; Xaa Pos. 3,4,6,12
Seq#:839; Xaa Pos. 3,4,6,13
Seq#:840; Xaa Pos. 3,4,6,14
Seq#:841; Xaa Pos. 3,4,6,15
Seq#:842; Xaa Pos. 3,4,6,16
Seq#:843; Xaa Pos. 3,4,6,17
Seq#:844; Xaa Pos. 3,4,6,18
Seq#:845; Xaa Pos. 3,4,6,19
Seq#:846; Xaa Pos. 3,4,6,20
Seq#:847; Xaa Pos. 3,4,7
Seq#:848; Xaa Pos. 3,4,7,8
Seq#:849; Xaa Pos. 3,4,7,9
Seq#:850; Xaa Pos. 3,4,7,10
Seq#:851; Xaa Pos. 3,4,7,11
Seq#:852; Xaa Pos. 3,4,7,12
Seq#:853; Xaa Pos. 3,4,7,13
Seq#:854; Xaa Pos. 3,4,7,14
Seq#:855; Xaa Pos. 3,4,7,15

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Input Set : F:\14184-041US1.txt
Output Set: N:\CRF4\08102006\J587450.raw

Seq#:856; Xaa Pos. 3,4,7,16
Seq#:857; Xaa Pos. 3,4,7,17
Seq#:858; Xaa Pos. 3,4,7,18
Seq#:859; Xaa Pos. 3,4,7,19
Seq#:860; Xaa Pos. 3,4,7,20
Seq#:861; Xaa Pos. 3,4,8
Seq#:862; Xaa Pos. 3,4,8,9

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:817; Line(s) 10829,10831
Seq#:818; Line(s) 10849
Seq#:819; Line(s) 10866,10867

VERIFICATION SUMMARY DATE: 08/10/2006
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Input Set : F:\14184-041US1.txt
Output Set: N:\CRF4\08102006\J587450.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
L:10772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:814 after pos.:0
L:10791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:815 after pos.:0
L:10810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:816 after pos.:0
L:10829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:817 after pos.:0
L:10848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:818 after pos.:0
L:10866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:819 after pos.:0
L:10884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:820 after pos.:0
L:10906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:821 after pos.:0
L:10928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:822 after pos.:0
L:10949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:823 after pos.:0
L:10970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:824 after pos.:0
L:10990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:825 after pos.:0
L:11010 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:826 after pos.:0
L:11030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:827 after pos.:0
L:11050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:828 after pos.:0
M:341 Repeated in SeqNo=828
L:11070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:829 after pos.:0
M:341 Repeated in SeqNo=829
L:11090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:830 after pos.:0
M:341 Repeated in SeqNo=830
L:11110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:831 after pos.:0
M:341 Repeated in SeqNo=831
L:11130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:832 after pos.:0
L:11150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:833 after pos.:0
L:11170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:834 after pos.:0
L:11190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:835 after pos.:0
L:11210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:836 after pos.:0
L:11230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:837 after pos.:0
L:11250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:838 after pos.:0
L:11271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:839 after pos.:0
L:11291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:840 after pos.:0
L:11311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:841 after pos.:0
L:11331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:842 after pos.:0
L:11351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:843 after pos.:0
M:341 Repeated in SeqNo=843
L:11371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:844 after pos.:0
M:341 Repeated in SeqNo=844
L:11391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:845 after pos.:0
M:341 Repeated in SeqNo=845
L:11411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:846 after pos.:0
M:341 Repeated in SeqNo=846
L:11432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:847 after pos.:0
L:11453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:848 after pos.:0
L:11473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:849 after pos.:0

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L:11493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:850 after pos.:0
L:11513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:851 after pos.:0
L:11533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:852 after pos.:0
L:11553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:853 after pos.:0